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Conceptual Basis for a New Approach to Bladed-Disk Design

Richard A. Layton*North Carolina A&T State University, Department of Mechanical Engineering, 1601 E. Market Street, Greensboro, NC 27411*John J. Marra*Pratt & Whitney, V2500 Systems Design, 400 Main St., M/S 169-15, East Hartford, CT 06108*

(Received October 19, 1998; revised October 25, 1999)

A central issue in gas turbine engine design today is the demand for higher performance, greater reliability, shorter lead times, and lower cost. The design of bladed disks (fans, compressors and turbines) is one area in which suitable design tools are sought to meet this demand. In this paper is presented the conceptual basis for a new, energy-based approach to design and an outline for future development of the approach as a software-based design tool. Technical tasks and risks associated with this development are summarized. It is hoped that this study will facilitate dialogue among practitioners of the various disciplines involved in bladed-disk design. ©2000 ASME

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